SmartVent

NZ's Home Ventilation Specialists

Positive Pressure Touch Screen Controller User Guide

www.smartvent.co.nz

POSITIVE
SmartVent
MON
10:30
Room Temp 19°C
Ceiling Temp 23°C
Air Supply Outside
Fan Speed 3
Mode Normal
SYSTEM
SETTINGS

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SMARTVENT SUPPORT

For further support with your SmartVent system please contact Technical Support:
p: 09 259 1662 | e: enquiry@smartvent.co.nz

1. General information

SmartVent Positive pressure systems offer a 24 hour, 7 day a week ventilation, drawing fresher, drier air from the roof cavity and passing it through a filter before gently distributing it around the home via diffusers set in the ceiling.

The introduced air positively pressurises the home and forces moist air generated by human activities, such as washing and cooking, out of your home. The end result is a drier living environment, less prone to condensation and reduced airborne contaminants.

The system is smart enough to choose where the 'supply air' should be drawn from, whether it be from your roof space, outside or from your lounge in Heat Transfer mode. It will choose the warmest supply point in winter and the coolest supply point in summer.

The state-of-the-art controller offers you complete control of your system including:

- 3 Fan Speeds
- Comfort Temperature range settings
- Boost Mode
- Heat Transfer Mode (if installed)
- Heater Settings (if installed)

The controller also gives you up-to-date readings on:

- A range of Temperatures
- Reading of Filter Usage

2. Quick start up guide

To get started you must set up your SmartVent system by completing the following steps:

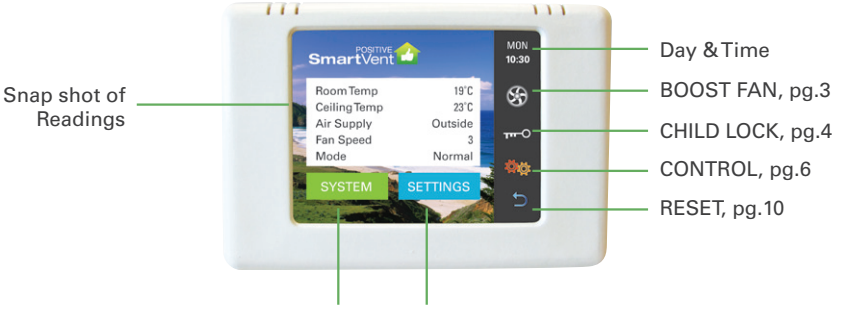
1) Set your Max and Min temperatures	**Go to page 18 to set this up**
2) Select the Fan Speed	**Go to page 24 to set this up**
3) Select the Heater mode (if installed)	**Go to page 20 to set this up**
4) Enable Heat Transfer (if installed)	**Go to page 26 to set this up**
5) Set up the Clock	**Go to page 31 to set this up**

Once these 5 settings are entered you can continue to learn more about your system using this User Manual.

3. Home page

The Home Page (pictured below) is where you enter all other pages from and provides you with a snap shot of the following readings:

- **Room Temperature:** Your current Room Temperature as read from your wall panel controller
- **Ceiling Temperature:** The ceiling temperature measures at the ceiling control box
- **Air Supply:** The source of inlet air either ceiling or outside.
- **Fan Speed:** The current fan speed low(1), medium (2) or high (3)
- **Mode:** The operating mode is Normal, Heat Transfer, Timer, or Override, reflecting the current system status.



To enter any of these pages just press on the tab or icon.

Note:
'Date & Time' and 'Snap shot of Readings' are for your information only and are not active.

CONTROLLER INDICATION

The words will apear to show you which mode the SmartVent system is operating in.

"**Normal**" - will appear when the system is running in ventilation mode.

"**Heat Trans**" - will appear when the "heat trans mode" is activated.

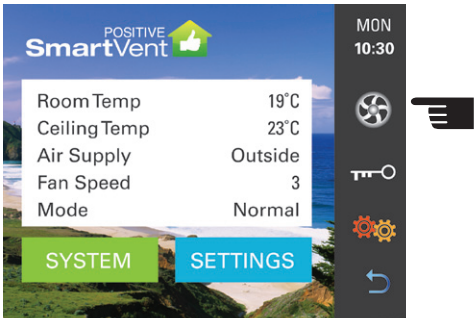
"**Timer**" - will appear when the "heater timer mode" is activated.

"**Override**" - will appear when the "heater override mode" is activated.

BOOST FAN

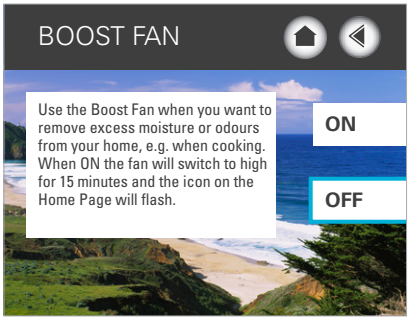
The Boost Fan function is used to increase SmartVent's fan to its maximum speed for a 15 minute interval. Useful when the home environment is experiencing a build up of toxins (e.g. cigarette smoke, cooking smells) or high levels of humidity in specific areas of the house.

To enter the Boost Fan mode, press the 'fan' icon on the Home page:

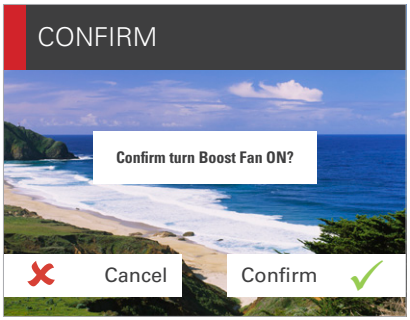


The BOOST FAN page will show the status of the Boost Fan. It is OFF when the OFF tab is highlighted with a blue border.

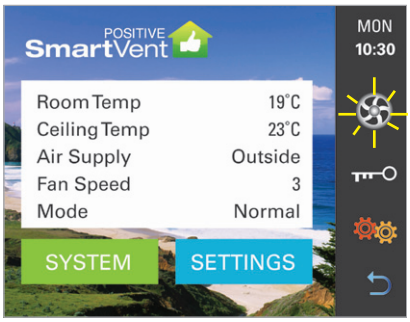
To activate the Boost Fan
Press the ON tab:


BOOST FAN
Use the Boost Fan when you want to remove excess moisture or odours from your home, e.g. when cooking. When ON the fan will switch to high for 15 minutes and the icon on the Home Page will flash.
ON
OFF

A CONFIRM page will prompt you to confirm your decision. Press Confirm to turn Boost Fan ON:

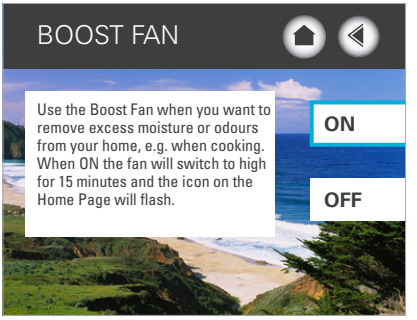


Once confirmed, the Home page will display with the 'fan' icon flashing on/off every half second. This icon will continue to flash for 15 minutes while the fan is in Boost mode. After 15 minutes the fan icon will stop flashing and the fans will return to their last fan speed setting.

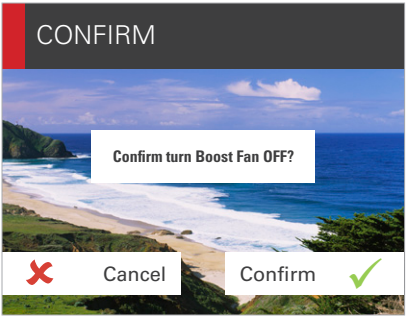


To deactivate the Boost Fan when ON
The Boost Fan can be deactivated before the 15 minutes have expired. Press the flashing 'fan' icon, this will take you to the BOOST FAN page. This page will show the ON tab highlighted with a blue border.

Press the OFF tab:


BOOST FAN
Use the Boost Fan when you want to remove excess moisture or odours from your home, e.g. when cooking. When ON the fan will switch to high for 15 minutes and the icon on the Home Page will flash.
ON
OFF

A CONFIRM page will prompt you to confirm your decision. Press Confirm to turn Boost Fan OFF:

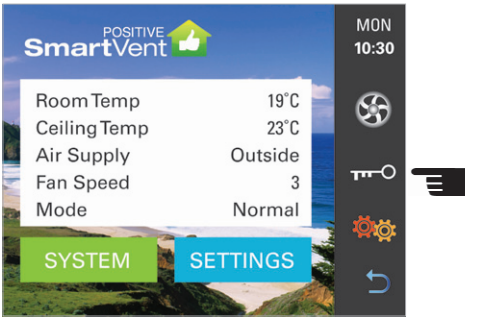


Once confirmed, you will return to the Home page where the fan icon will no longer be flashing.

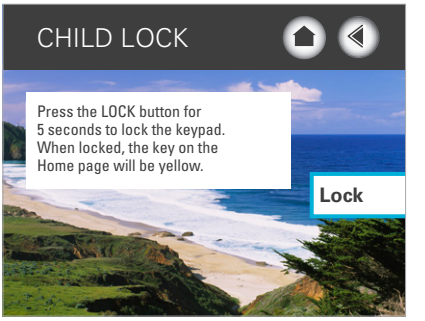
Note: Reset does not turn Boost function off.

Prevents those 'little fingers' from changing details on your controller. When in Child Lock mode, the Touch Screen will not respond to anything other than a direct touch of the Child Lock 'key' icon.

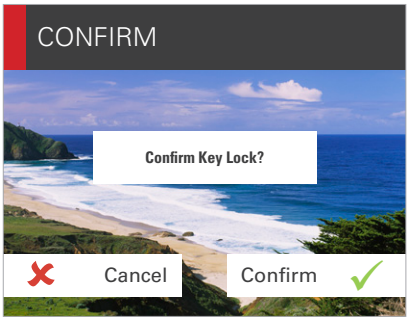
To activate Child Lock
Press the 'key' icon (coloured white) on the Home page:



The CHILD LOCK page will display. Press the Lock button for 5 seconds to place SmartVent in Child Lock mode, as you press 'Lock' you will hear a beeping sound for the 5 seconds.



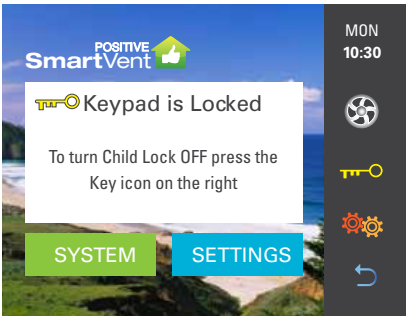
After a 5 second time period a CONFIRM page will prompt you to confirm your decision. Press Confirm to Lock the controller screen:



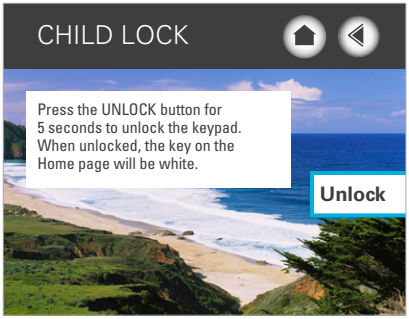
Once confirmed, the Home page will resume.

Note:
The 'key' icon on the Home page has now turned yellow to indicate SmartVent is locked.

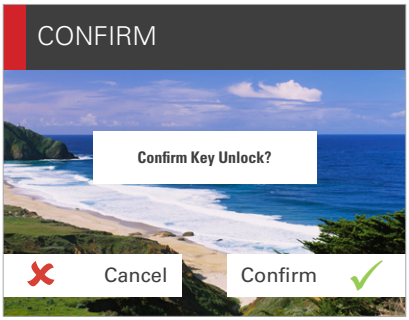
If the screen is pressed in Child Lock mode a display appears saying the system is locked and how to restore it to normal operation:



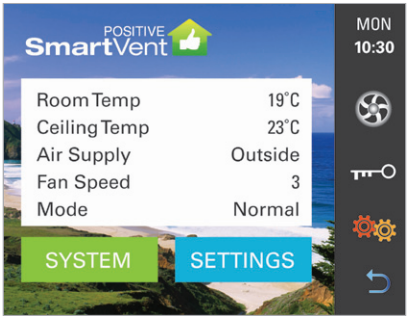
To unlock the Controller
Press the yellow 'key' icon and the CHILD LOCK page will appear:


CHILD LOCK
Press the UNLOCK button for
5 seconds to unlock the keypad.
When unlocked, the key on the
Home page will be white.
Unlock

Press the Unlock button for 5 seconds to disable the Child Lock mode. After a 5 second time period a CONFIRM page will prompt you to confirm your decision. Press Confirm to Unlock the Controller screen:



Once confirmed, the Home page will display and SmartVent will be returned to normal with the Child Lock 'key' icon white, not yellow:

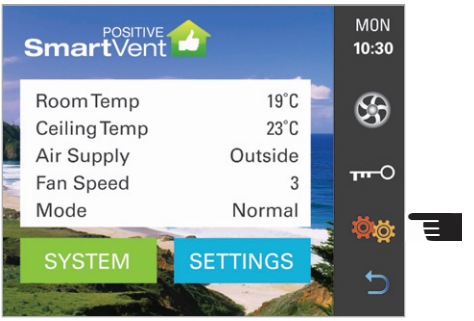


CONTROL

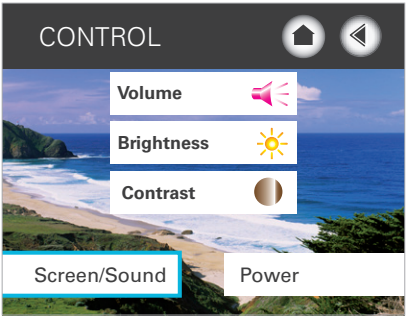
The CONTROL page allows you to:

- Adjust the controller speaker volume level
- Adjust screen contrast & brightness
- Turn SmartVent ON and OFF

To access these settings, press the Control 'cogs' icon on the Home page:



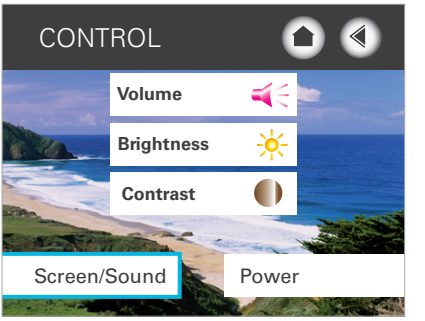
The CONTROL page is will appear:



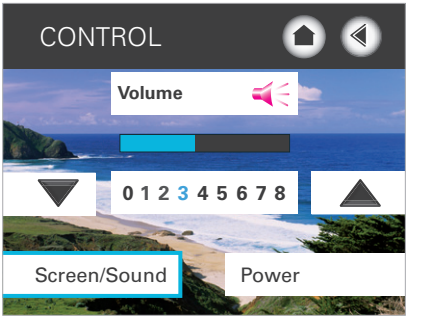
The Screen/Sound tab is highlighted indicating the CONTROL Page which displays the Volume, Contrast and Brightness is active.

VOLUME

To adjust the speaker volume, press the Volume button:



A new CONTROL page will appear with an up and down arrow and a sliding scale of 0 to 8:



Press the black arrows to adjust the speaker level. At every press of the button the speaker will sound at the new volume level. 0 setting turns the speaker volume OFF and 8 is the loudest.

Press the Back page button to return to the Screen/Sound CONTROL page,

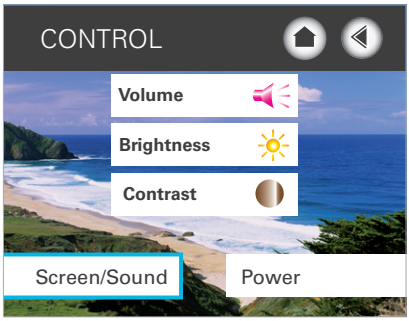
or the Home button to return to the Home Page at any time.

Note:

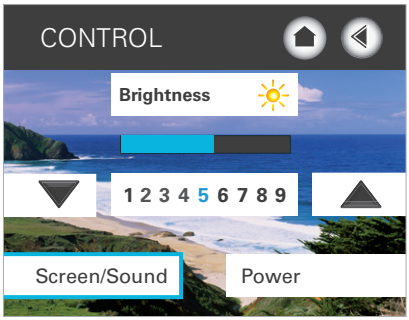
When speaker volume is OFF, a 'mute' icon will appear on the Home page.

BRIGHTNESS

To adjust the screen Brightness, press the Brightness button:



A new CONTROL page will appear with an up and down arrow and a sliding scale of 1 to 9:



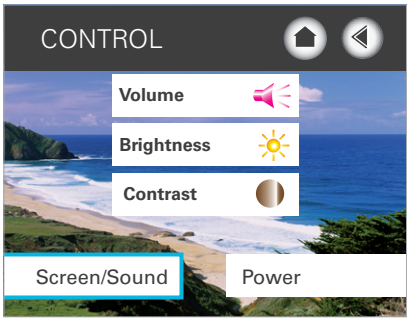
Press the black arrows to adjust the screen's Brightness level. Level 1 is the darkest and level 9 is the brightest.

Press the Back page button to return to the Screen/Sound CONTROL page,

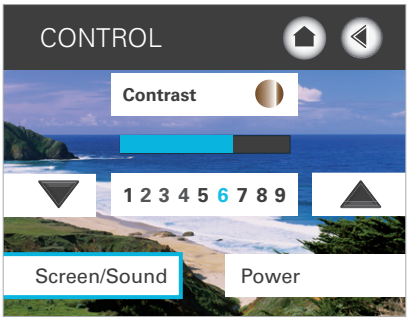
or the Home button to return to the Home Page at any time.

CONTRAST

To adjust the screen Contrast, press the Contrast button:



A new CONTROL page will appear with an up and down arrow and a sliding scale of 1 to 9:



Press the arrows to adjust the screen's contrast level. Level 1 gives the least contrast and level 9 the highest.

Note:
The best screen display is a subjective mixture of both Brightness and Contrast controls.

Press the Back page button to return to the Screen/Sound CONTROL page,

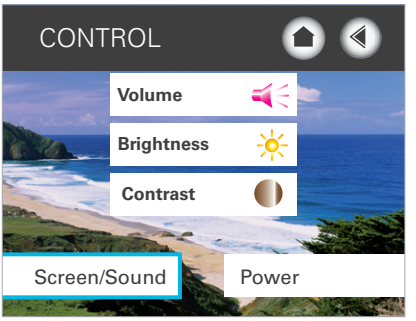
or the Home button to return to the Home Page at any time.

Note:
Reset returns the brightness, contrast and sound to mid level.

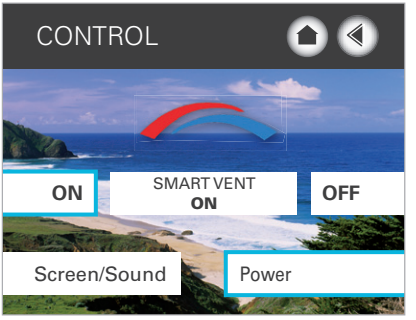
POWER

Turning SmartVent OFF
When SmartVent is turned OFF, the ventilation system and heat transfer will stop. All your customised settings will be remembered for the next time you turn the system ON. This excludes the Heater Override mode; if this mode is currently ON with time remaining, the system will turn the heater OFF and revert back to Heater Timer or Normal mode and not the Override mode.

To turn your SmartVent system OFF, press the Power button:

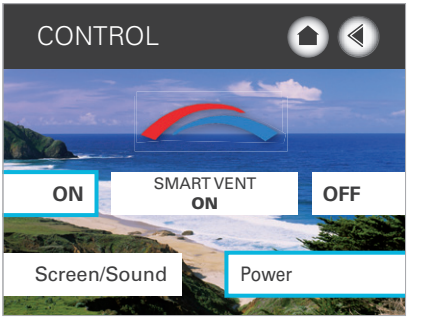


A new CONTROL page will appear:

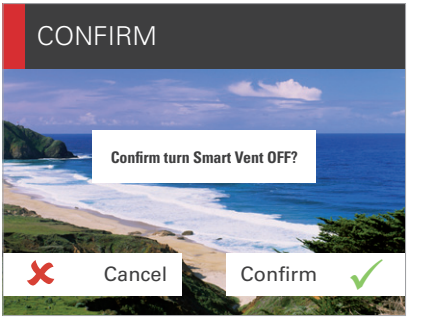


The ON button will be highlighted blue and the SmartVent logo will be coloured red and blue, indicating SmartVent is currently ON.

Press the OFF button:

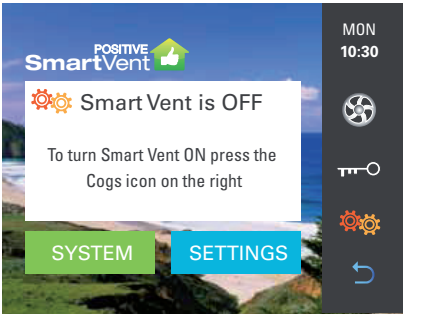


SmartVent will automatically prompt you to confirm your decision:



Note:
Press Cancel if you wish to return to the Home page ***without*** *turning SmartVent OFF.*

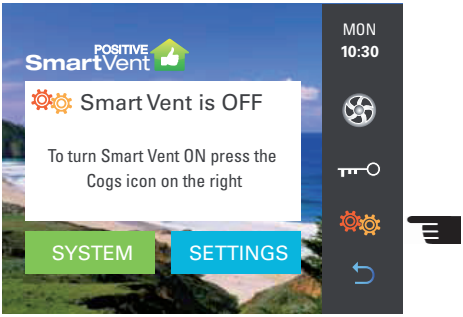
Once confirmed the display will revert to a modified Home page:



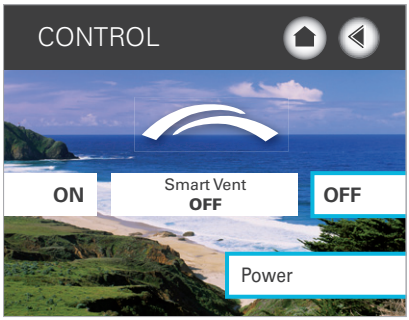
The screen will not respond to anything other than a direct touch to the Control 'Cogs' icon:

Turning SmartVent back ON

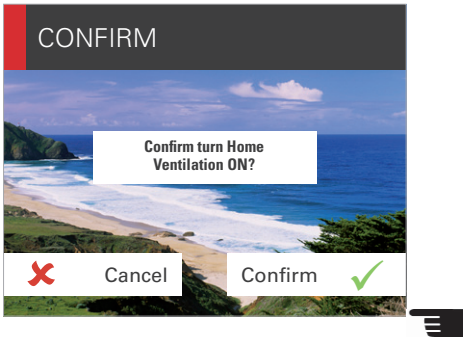
Press the Control 'cogs' icon to access the CONTROL page:



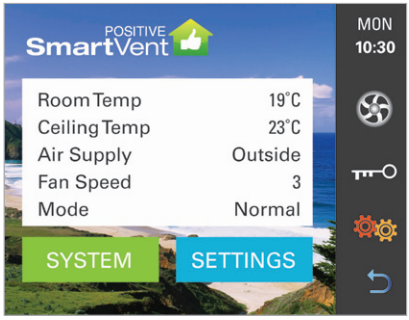
The CONTROL page will appear showing the status of SmartVent as OFF. The OFF button will be highlighted blue, the SmartVent logo will be white and the Screen/Sound tab will be absent:



Press the ON button and SmartVent will automatically prompt you to confirm your decision:



Once confirmed, the Home page will display and SmartVent will be switched back ON, restoring all your previous settings.



RESET

When SmartVent is first installed, the operating system defaults to set conditions. Most importantly, the in-line tempering heater (if installed) is disabled.

The following is the status of SmartVent when Reset or when first installed:

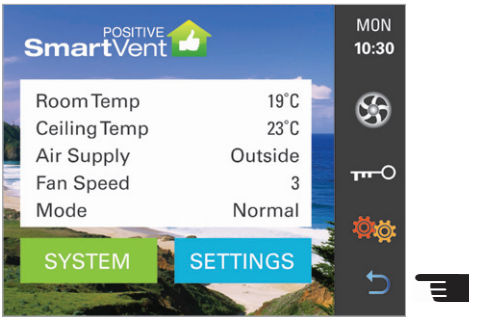
- **Minimum temperature:** 5°C
- **Maximum temperature:** 30°C
- **Clock*:** 00:00 (Hr:Min), MONDAY
- **Heat Transfer:** Disabled
- **Fan Speed:** Speed 3
- **Heater:** Disabled (if installed)
- **Speaker Volume:** Level 4 (medium)
- **Contrast:** Level 5 (medium)
- **Brightness:** Level 5 (medium)
- **Comfort Temp:** 25°C

** A system RESET will not reset the Clock to zero, this only occurs when first installed.*

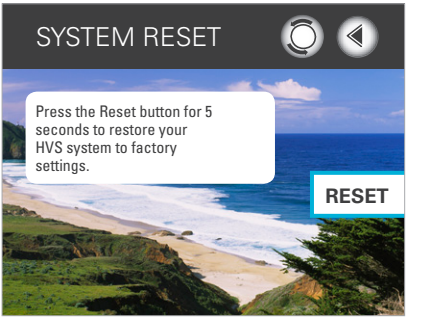
SmartVent can be RESET at any time. This procedure enables you to restore the system to the known values above BUT all customised settings will be lost as a result of this action.

Note:
*The filter usage totals are **not** affected by a system RESET.*

To RESET SmartVent, press the RESET icon on the Home page:

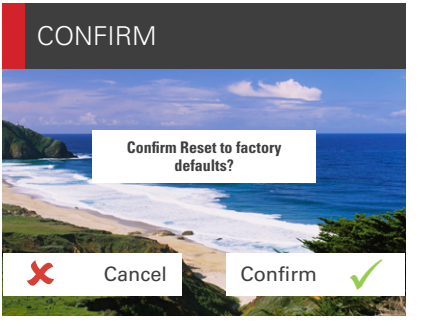


The SYSTEM RESET page will appear:



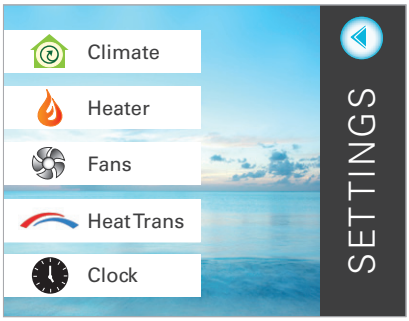
Press the 'RESET' button for 5 seconds to RESET SmartVent. As you press 'RESET' you will hear a beeping sound every second.

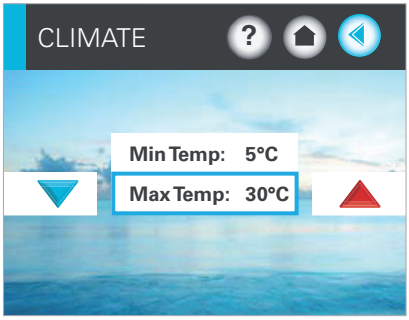
After 5 seconds a CONFIRM page will automatically appear. Press Confirm to RESET your SmartVent system:



To check that the RESET was successful Go to SETTINGS then CLIMATE and the minimum and maximum temperature settings are

- Maximum Temperature = 30 °C
- Minimum Temperature = 5 °C





4. System

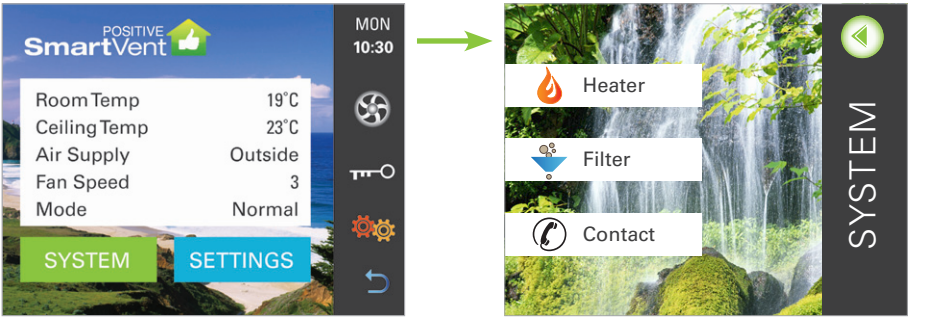
SYSTEM

Pages within the SmartVent SYSTEM menu are designed to present you with a summary 'snap-shot' of your SmartVent system. The information contained within these pages can not be altered, they contain decisions you have made using the SETTINGS pages as well as readings made by the system.

SmartVent SYSTEM MENU provides different information pages:

	Heater	**13**
	Filter	**15**
	Contact	**16**

To enter into one of these pages simply press the SYSTEM tab on the Home page and then select the right feature on the next page:



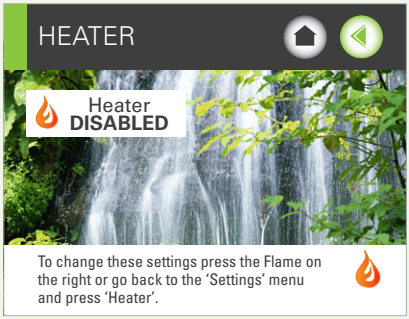
Note:
All SETTINGS pages have a Green coloured theme running throughout the pages; they all have a green strip at the top left of each page and use a green coloured outline when distinguishing between pages within a section.

HEATER

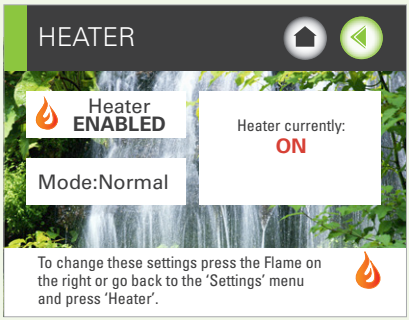
An information page providing the status of your heater (if installed), showing whether the heater is ON or OFF and (if ON) which of the 3 modes (Normal, Override or Timer) is active. This information reads directly from your settings in the SETTINGS HEATER pages (refer to page 21 to set these up).

To access SmartVent HEATER press the Heater tab on the SYSTEM Menu page:

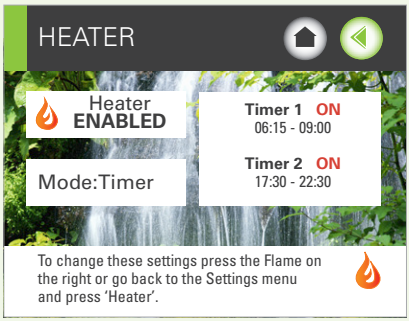
A HEATER page will appear. Shown below are samples of possible heater pages:


HEATER
Heater
DISABLED
To change these settings press the Flame on the right or go back to the 'Settings' menu and press 'Heater'.

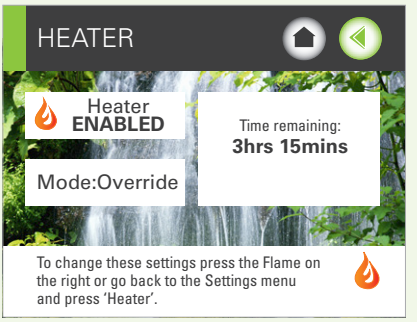
In this example the heater has been 'disabled' which means under no circumstances will the heater turn on.



In this example, the heater is enabled and active (ON) and operating in **Normal** mode, which means the heater turns ON when the ceiling temperature falls below your minimum temperature setting.

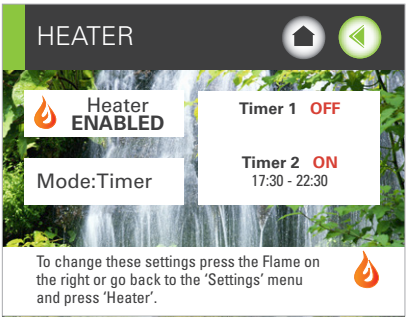

HEATER
Heater
ENABLED
Mode:Timer
Timer 1 ON
06:15 - 09:00
Timer 2 ON
17:30 - 22:30
To change these settings press the Flame on the right or go back to the Settings menu and press 'Heater'.

In this example the heater is in **Timer** mode with it programmed to turn ON at 6:15hrs and OFF at 9:00hrs on Timer 1, and then ON again at 17:30hrs and OFF at 22:30hrs on Timer 2, provided the room temperature is below your minimum temperature setting.


HEATER
Heater
ENABLED
Mode:Override
Time remaining:
3hrs 15mins
To change these settings press the Flame on the right or go back to the Settings menu and press 'Heater'.

In this example the heater is in **Override** mode and there is currently 3 hours and 15 minutes remaining of the ON time, irrespective of ceiling temperature.

The status of the heater modes can be altered by pressing the Heater icon in the bottom right hand corner of the HEATER page.


HEATER
Heater
ENABLED
Mode:Timer
Timer 1 OFF
Timer 2 ON
17:30 - 22:30
To change these settings press the Flame on the right or go back to the 'Settings' menu and press 'Heater'.

This jumps you straight to the SmartVent HEATER page. The status of the Heater can now be altered. Refer to the SmartVent HEATER section for how to change these settings (page 20).

Press Home to return to the Home page at any time

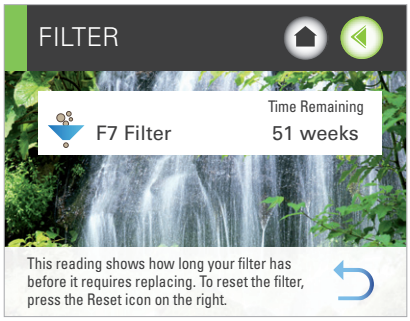
Press Back button to step back to the SYSTEM Menu page

FILTER

An information page displaying the usage of your F7 filter in terms of weeks remaining before it requires either cleaning or replacing.

To access SmartVent FILTER press the Filters tab on the SYSTEM Menu page:

The FILTERS page will appear:

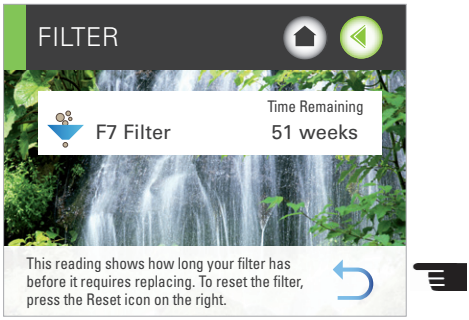

FILTER
F7 Filter
Time Remaining
51 weeks
This reading shows how long your filter has before it requires replacing. To reset the filter, press the Reset icon on the right.

- **F7 Filter:** The F7 filter replacement time is approximately 52 weeks (1 year). Refer to page 32 for replacement instructions.

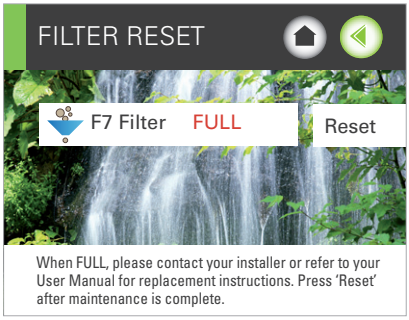
To Reset your Filter
The Filter Reset is to be used when you have replaced your filter and wish to reset the filter usage back to empty/new. This will reset the replacement time back to the start. Refer to page 32 for further information on replacing and cleaning your filter.

Note:
DO NOT reset the filter before the filters have been used for 52 weeks as this will void your warranty.

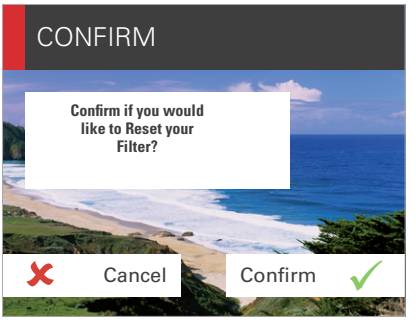
Press the RESET button at the bottom of the page:


FILTER
F7 Filter
Time Remaining
51 weeks
This reading shows how long your filter has before it requires replacing. To reset the filter, press the Reset icon on the right.

Press the 'Reset' tab adjacent to the Filter(s) you wish to Reset:


FILTER RESET
F7 Filter
FULL
Reset
When FULL, please contact your installer or refer to your User Manual for replacement instructions. Press 'Reset' after maintenance is complete.

A CONFIRM page will appear asking you to confirm your decision:

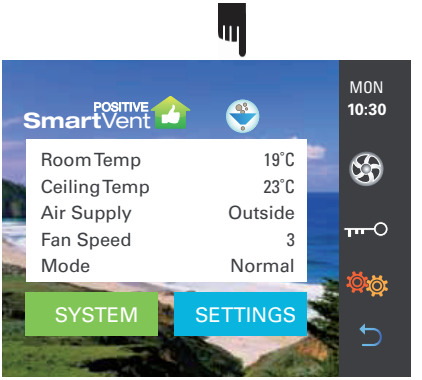


Press Confirm to Reset the filter and return to the FILTER page.

Press Home to return to the Home page at any time

Press Back button to step back to the SYSTEM Menu page

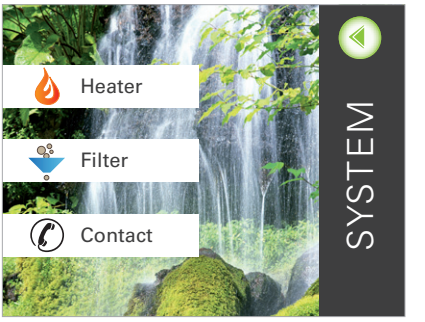
Note:
A Filter Replacement button will appear on the HOME PAGE when either filter requires cleaning or replacing. Press the button to take you directly to the FILTER RESET page and follow the maintenance instructions on Page 31 .



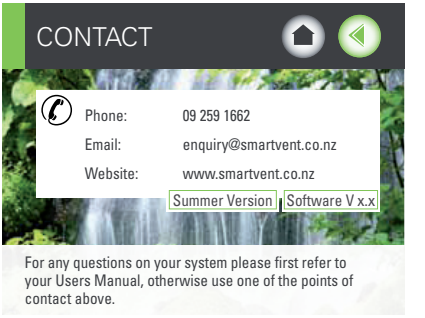
CONTACT

An information page listing several contact modes for technical assistance and advice on your SmartVent System.

To access SmartVent CONTACT press the Contact tab on the SYSTEM Menu page:



The CONTACT page will appear:


CONTACT
Phone: 09 259 1662
Email: enquiry@smartvent.co.nz
Website: www.smartvent.co.nz
Summer Version
Software V x.x
For any questions on your system please first refer to your Users Manual, otherwise use one of the points of contact above.

To assist with any questions you may have regarding your SmartVent Controller, please use one of the following points of contact, (quoting your Software Version number):

Phone:	09 259 1662
Email:	enquiry@smartvent.co.nz
Website:	www.smartvent.co.nz

5. Settings

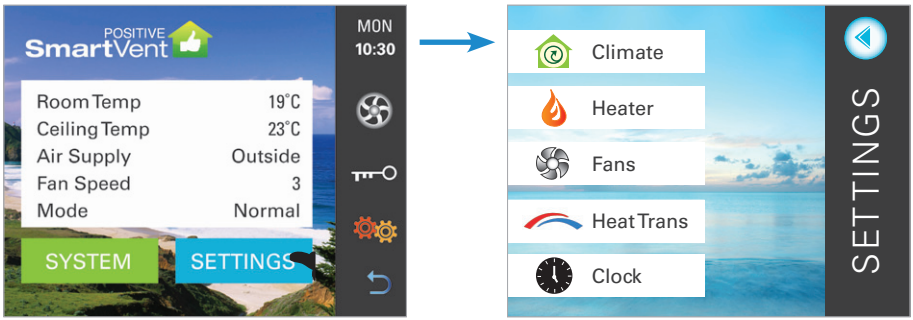
SETTINGS

SETTING pages are the control pages where you setup your SmartVent system to your desired settings. Every time you change settings within SETTINGS it automatically changes your SYSTEM pages where applicable.

SETTINGS MENU provides five different setting pages:

	Climate	**18**
	Heater	**20**
	Fans	**24**
	Heat Trans	**26**
	Clock	**31**

To enter into one of these pages simply press the SETTINGS tab on the home page and then again on the related tab.



Note:
All SETTINGS pages have a Blue coloured theme running throughout the pages; they all have a blue strip at the top left of each page and use a blue coloured outline when distinguishing between pages within a section.

CLIMATE

SETTINGS CLIMATE is the defining setting for the control over your home comfort. Some modes are dependent on this temperature range being setup such as the Heat Transfer and Tempering Heater.

The reset values for CLIMATE are:

- Maximum Temperature = 30°C
- Minimum Temperature = 5°C

System Maximum Temperature

If the temperature in the roof cavity exceeds the maximum temperature settings, one of the following will happen

a) Outside air is vented into the house (if the summer feature is installed).
b) The fan turns off when Fan Mode Max is 'Enabled' (non summer models), to stop hot air entering the home. (Page 25 for more information)

System Minimum Temperature

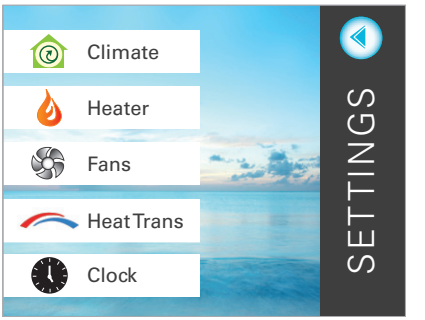
If the temperature in the roof cavity falls below the minimum temperature settings, one of the following will happen

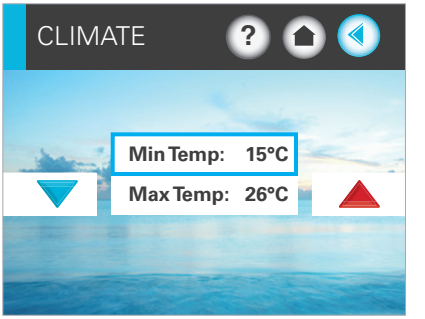
a) Fan speed drops to speed 1 (no heater is installed)
b) Fan speed drops to speed 2 (heater installed and enabled)
c) Fan Speed drops to speed 1 (heater installed and disabled).
d) Fan turns off when Fan Mode Min is enabled; to stop cold air entering the home

If the temperature falls in between the Maximum and Minimum then the system is running Normal

Note: The controller will not allow the minimum temperature to be set greater than the maximum or vice versa, and must be separtured by at least 5 degrees.

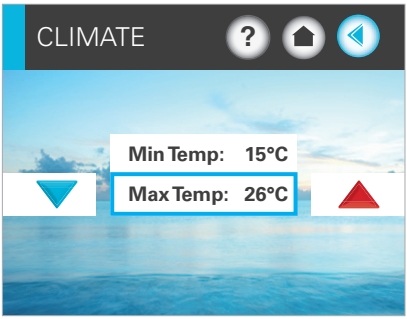
In SETTINGS Press CLIMATE and the page will display





The Minimum Temperature setting is highlighted to indicate that this is the active setting. Use the DOWN arrow to decrease and the UP arrow to increase the temperature to your desired level.

Press Maximum Temperature and then the UP and DOWN arrows to increase/ decrease the setting as desired.

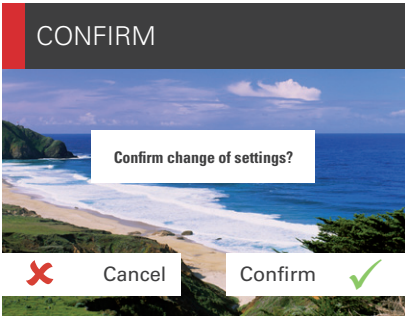


Press the help page icon at any stage to provide information on Climate.

Press the Home button to return to the Home Page at any time.

Press the Back button to step back to the SETTINGS Menu.

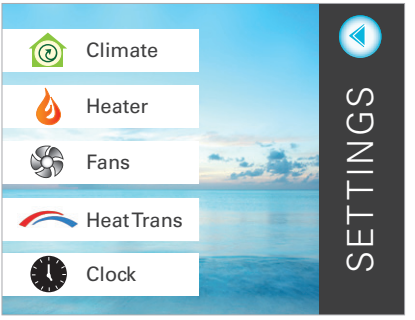
If any changes have been made to the settings in this section, SmartVent will prompt you to confirm your decision:



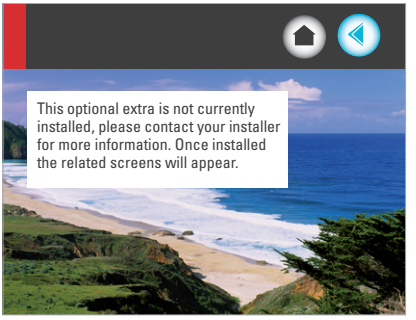
HEATER

An in-line tempering heater is available as an optional extra to the SmartVent system. The heater 'tempers' the inlet air in situations where the home air is insufficient to bring the incoming air temperature to your minimum temperature comfort setting.

To enter HEATER SETTINGS, press SETTINGS on the Home page and then press HEATER:



If there is no heater installed an information page will be displayed:


This optional extra is not currently installed, please contact your installer for more information. Once installed the related screens will appear.

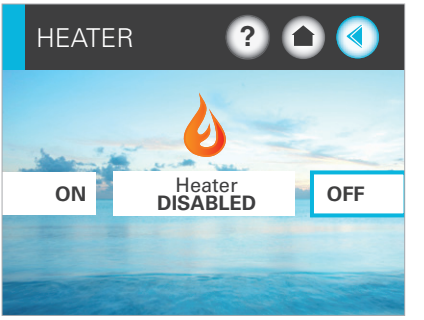
In this case:

Press the Home button to return to the Home Page or

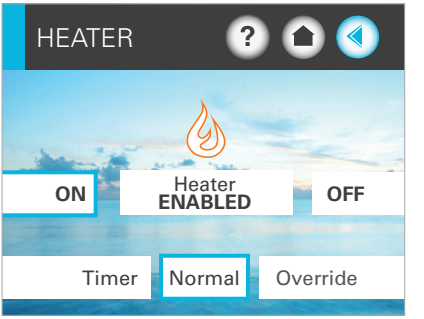
Press the Back button to step back to the MY SETTINGS Menu.

If installed, the HEATER page will appear. When the heater is OFF, the OFF button will have a blue border and the flame will be white.

To Enable the heater
Press the ON button:



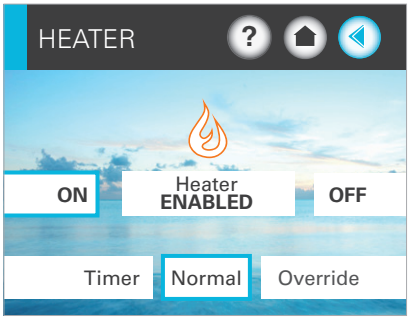
The page changes to show the 3 available Heater modes: Timer, Normal and Override:



NORMAL HEATER MODE

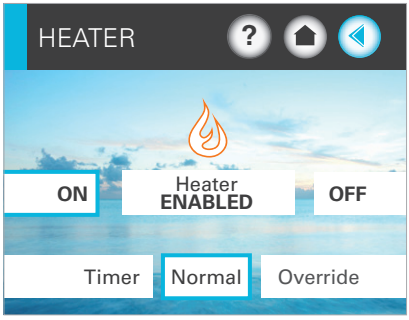
Normal mode is driven by the Minimum Temperature setting. If the heater is enabled and this mode is active, then it will automatically turn the tempering heater ON when your Roof Air Source drops below the minimum temperature and OFF again when it rises 1°C above your minimum set comfort temperature.

The Normal tab border is highlighted blue indicating this mode is active:



Note:
Normal mode is the default mode. SmartVent will automatically select this mode when the heater is turned ON, providing neither of the other two modes were active prior to the heater being turned OFF.

If a different mode is active and you wish to enable Normal mode, press the Normal tab:

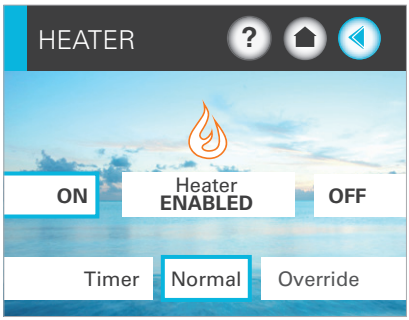


To deactivate Normal heater mode either turn the heater OFF on the HEATER page or change to another heater mode.

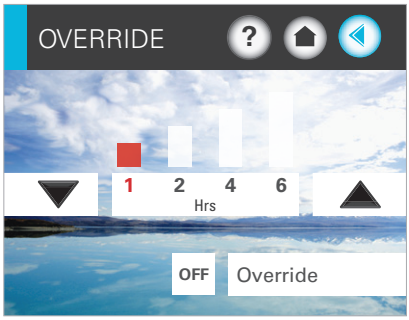
OVERRIDE HEATER MODE

Override mode allows you to turn the heater ON, irrespective of any temperature settings. This mode is useful to temper the incoming air in situations where the home environment is cold and heating has yet to take place.

To enable the Override mode press the Override tab:

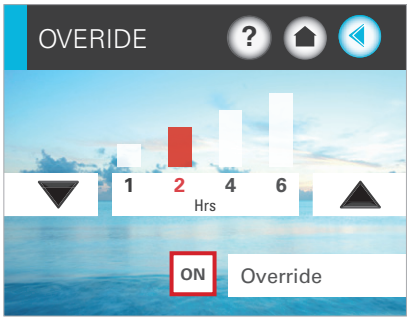


The OVERRIDE page will be displayed:



Use the UP and DOWN arrows to select the number of hours that you wish the heater to turn ON for (1, 2, 4 or 6 hours).

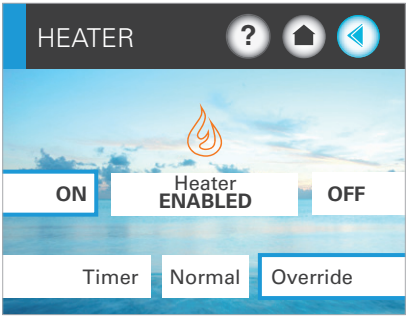
When you have chosen how long you wish to run the heater for, press the ON/OFF button to read ON so that border is highlighted red, indicating the Override mode is now active.



Note:
Once this setting is confirmed the heater will instantly turn ON. After the time has lapsed, the heater will turn OFF and the system will revert back to the previous active mode (either Normal or Timer mode). If you have not used either before enabling the Heater it will revert to Normal Mode (default).

Return to the Heater page by pressing the Back button

The Override tab border is now highlighted blue indicating this mode is operative:



To deactivate Override heater mode either turn the heater OFF on the HEATER page or change to another heater mode.

TIMER HEATER MODE

Timer Mode is a combination of time intervals which are conditional on the ceiling temperature falling below the minimum temperature setting.

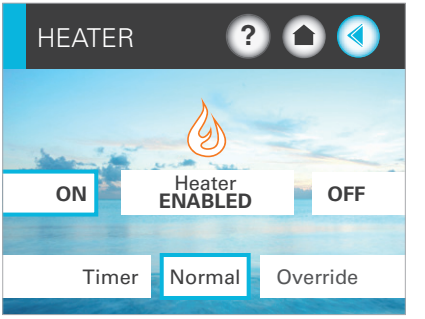
For the heater to turn ON in Timer mode, two conditions must be met:

1) **The time of day must fall within either of the 2 x set time periods as set by you.**

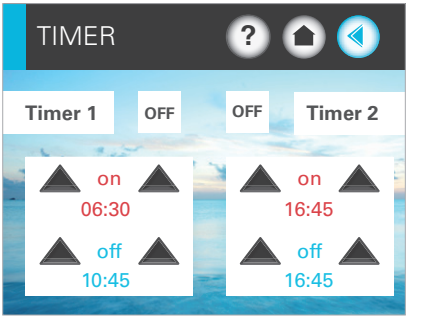
2) **The temperature in the ceiling must be less than the minimum temperature setting.**

Two timers allow morning and evening operations but there are no restrictions of the timer band width or even overlap.

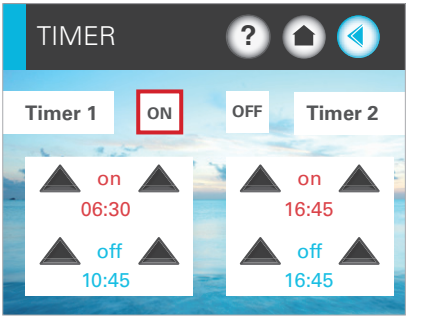
To enable the Timer heater mode press the Timer tab:



The TIMER page is displayed showing Timer 1 and Timer 2 on/off times:



To set the Timer(s)
To turn Timer 1 ON, press the button adjacent to the Timer 1 tab labelled 'OFF'. This will change to an ON button with a red border:



Use the UP arrows to adjust the time in hours and minutes that the heater will turn on, provided the room temperature is below the minimum temperature setting. The arrows on the left hand side of the Timer 1 'clock box' adjust the Hour, and the ones of the right hand side adjust the Minutes.

If two timer periods are required, repeat the procedure for Timer 2. Both or either times can be on/off.

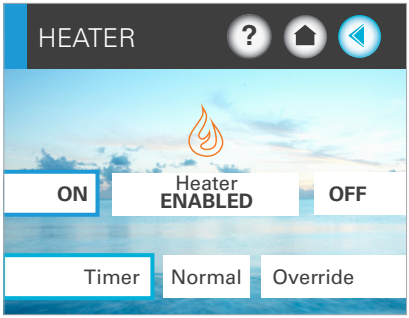
As an example the heater could come on between 6am and 8am in the morning and between 5pm and 8pm at night, all provided the ceiling temperature was less than the minimum temperature setting.

Note:

1. *If your ceiling temperature is above your Minimum Temperature setting during your timer periods, then the heater will not turn ON.*
2. *If your ceiling temperature falls below your Minimum Temperature outside of your chosen time periods, then the Heater will NOT turn ON.*

Return to the HEATER page by pressing the Back button

The Timer tab border is now highlighted blue indicating this mode is operative:



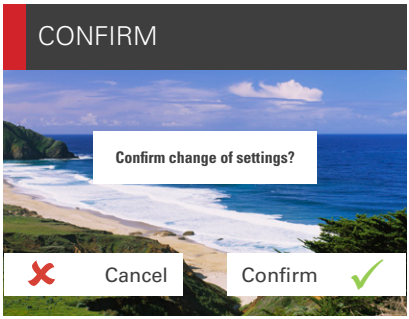
To deactivate Timer heater mode either turn the heater OFF on the HEATER page or change to another heater mode.

Press the help page icon at any stage to provide information on these Heater modes.

Press the Home button to return to the Home Page at any time.

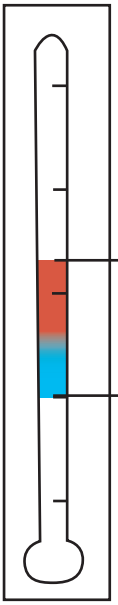
Press the Back button to step back to the SETTINGS Menu.

If any changes have been made to the settings in this section, SmartVent will prompt you to confirm your decision:



FAN SPEED

The SmartVent controller uses a multi-speed motor to control the flow of filtered air into the house, the Fan speed is determined by your Minimum and Maximum temperature settings.



Above Maximum temp.
Summer Models: Vents from outside - does not change fan speed
Non-Summer Models: Will turn Fan Off if the 'Fan Mode Max' setting is 'active', otherwise does not affect fan speed.

Maximum temp. setting

Minimum temp. setting

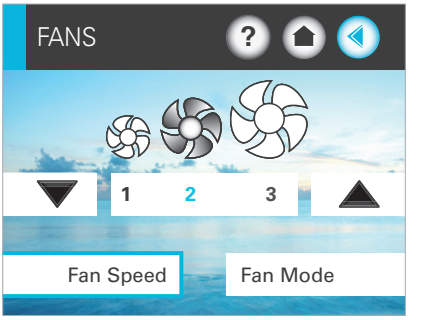
Below Minimum temp.
No heater or heater disabled:- changes to fan speed 1 or turn off if fan mode min is enabled.
Heater enabled: changes to fan speed 2 & turn heater on

Ceiling Temperature

When the ceiling temperature drops below the minimum temperature the fan speed automatically sets to fan speed one if the heater is disabled (or no heater is installed) or speed two if the heater is enabled or turn fan off if Fan Mode min is Enable

To check or alter the current ventilation rate press the Fan Speed button:

The page will change to display a colour fan icon indicting the current Fan Speed:

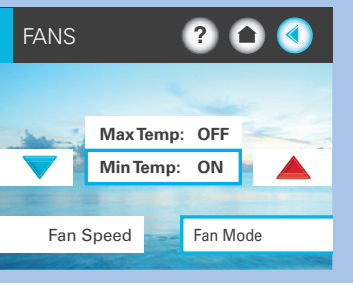


Use the UP and DOWN arrows to alter the speed settings if required from low speed (speed 1) to maximum fan speed (speed 3).

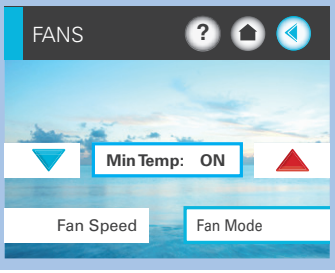
FAN MODE

Fan Mode controls the operation of the fan when the ceiling temperature exceeds/drops below the system maximum/minimum temperature setting. This feature is enabled when the user does not want the system to operate when the air in the ceiling space exceeds 35°C for example, or conversely when the air in the ceiling drops below 10°C for example.

PLEASE NOTE
Max & Min Temp options are available for Non-Summer Vent models:
SV02, SV04 & SV06



Min Temp options are available for Summer Vent Models:
SV02S, SV4S & SV6S



Maximum Temperature function
Use this function if you would like your system to turn OFF once your ceiling temperature exceeds the maximum temperature so the system stops pushing hot air into your home in summer.

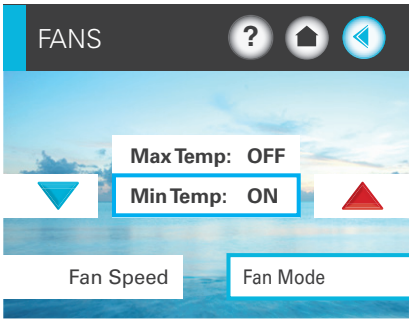
Minimum Temperature function
Use this function if you would like your system to turn OFF once your ceiling temperature drops below the minimum temperature so the system stops pushing cold air into your home in winter.

ON -will turn the fan OFF if your ceiling temperature goes beyond your set minimum or maximum.

OFF - will continue to operate as Normal

The FAN MODE tab is highlighted with a blue border to indicate that this is the active page.

The Minimum Temperature setting is highlighted to indicate that this is the active setting. Use the DOWN arrow to decrease and the UP arrow to turn ON or OFF the Minimum temperature



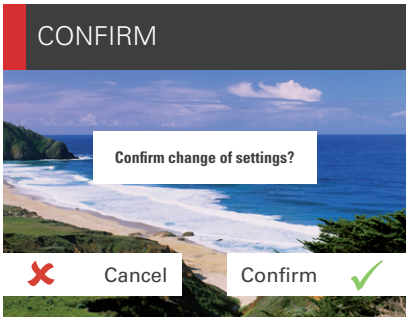
Press Maximum Temperature and then the UP and DOWN arrows to turn ON or OFF the Maximum temperature

Press the help page icon at any stage to provide information on Fans

Press the Home button to return to the Home Page at any time.

Press the Back button to step back to the SETTINGS Menu.

If any changes have been made to the settings in this section, SmartVent will prompt you to confirm your decision:



Press the 'Confirm' button to accept the changes and exit this section.

SETTINGS - HEAT TRANSFER

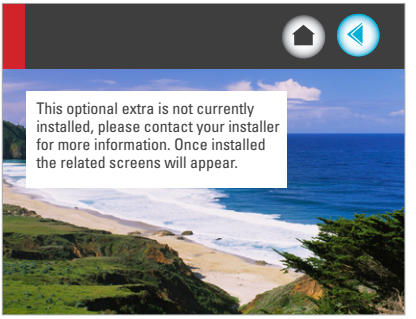
SmartVent incorporates a Heat Transfer Mode which when enabled will transfer excess heat to other rooms in your home.

HEAT TRANSFER

This mode is used to enable the heat transfer of air. When enabled, and when your set 'HT Temperature' is exceeded, the system stops sourcing air from the ceiling cavity or outside the house and instead transfers excess warmed air from the heat source room to the other SmartVent outlets in your home. Go into the Settings menu, then press the Heat Trans tab

Note:
Unlike more conventional heat transfer systems which simply transfer the excess heat, the SmartVent system also filters this warmed air.

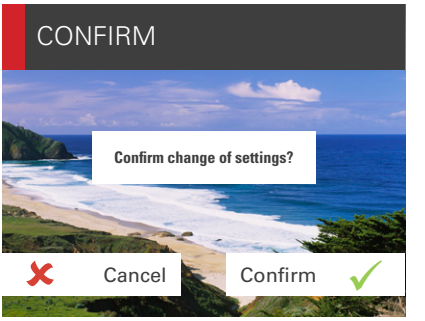
If there is no heat transfer installed an information page will be displayed:


This optional extra is not currently installed, please contact your installer for more information. Once installed the related screens will appear.

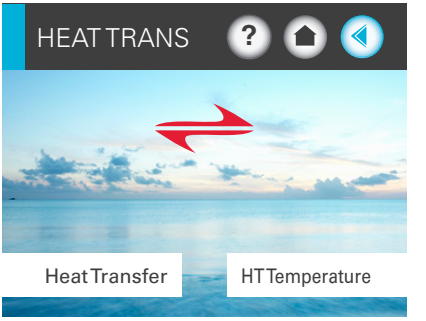
Press the Home button to return to the Home Page at any time.

Press the Back button to step back to the SETTINGS Menu.

If any changes have been made to the settings in this section, SmartVent will prompt you to confirm your decision:



If installed, the HEAT TRANSFER page will appear.



The HEAT TRANSFER button is used to enable or disable the Heat Transfer function.

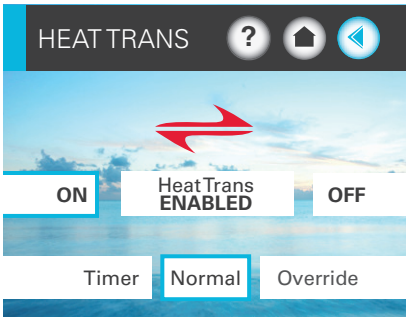
The HT TEMPERATURE button is used to set the temperature level at which you would like the system to start transferring excess heat from the heat source room.

Once Heat Transfer is enabled, you will need to set your comfort 'HT Temperature' (page 30).

NORMAL HEAT TRANSFER MODE

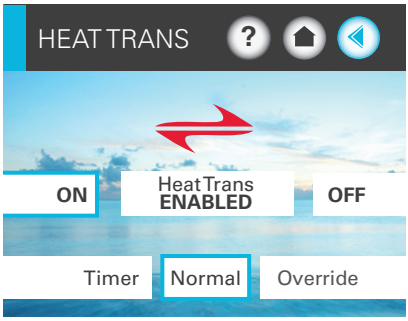
Normal mode is driven by the HT Temperature setting. If the heat transfer is enabled and this mode is active, then it will automatically turn the transfer ON when your Control Room rises above the HT Temperature and off again when it drops 1°C below the HT Temperature.

The Normal tab border is highlighted blue indicating this mode is active:



Note:
Normal mode is the default mode. SmartVent will automatically select this mode when the heat transfer is turned ON, providing neither of the other two modes were active prior to the heat transfer being turned OFF.

If a different mode is active and you wish to enable Normal mode, press the Normal tab:

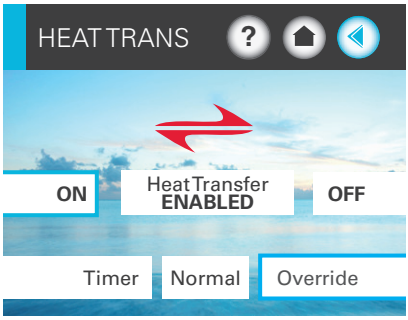


To deactivate Normal heat transfer mode either turn the heat transfer OFF on the HEAT TRANSFER page or change to another heat transfer mode.

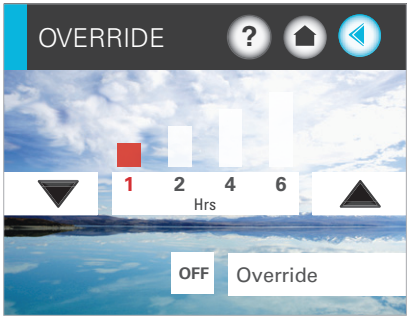
OVERRIDE HEAT TRANSFER MODE

Override mode allows you to turn the heat transfer ON, irrespective of any temperature settings.

To enable the Override mode press the Override tab:

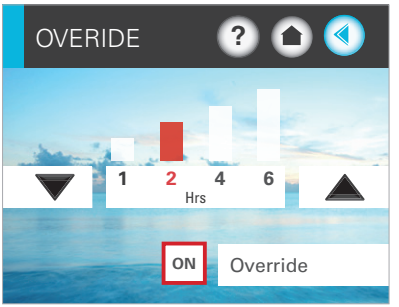


The OVERRIDE page will be displayed:



Use the UP and DOWN arrows to select the number of hours that you wish the heat transfer to turn ON for (1, 2, 4 or 6 hours).

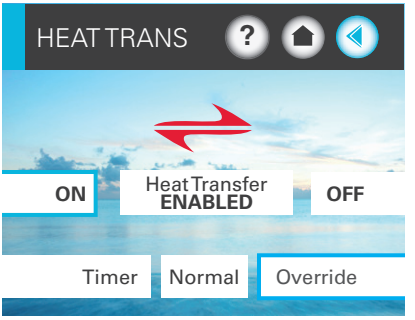
When you have chosen how long you wish to run the heat transfer for, press the ON/OFF button to read ON so that border is highlighted red, indicating the Override mode is now active.



Note:
Once this setting is confirmed the heat transfer will instantly turn ON. After the time has elapsed, the heat transfer will turn OFF and the system will revert back to the previous active mode (either Normal or Timer mode). If you have not used either before enabling the Heat Transfer it will revert to Normal Mode (default).

Return to the Heat Transfer page by pressing the Back button

The Override tab border is now highlighted blue indicating this mode is operative:



To deactivate Override heat transfer mode either turn the heat transfer OFF on the HEAT TRANSFER page or change to another heat transfer mode.

HEAT TRANSFER TIMER MODE

Timer Mode is a combination of time intervals which are conditional on the room temperature rising above the HT Temperature settings.

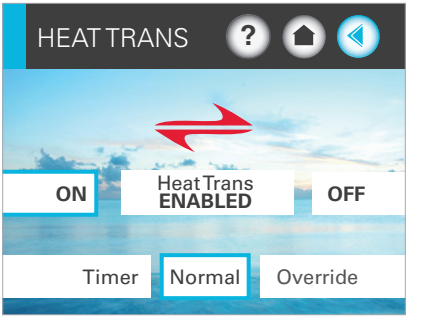
For the heat transfer to turn ON in Timer mode, two conditions must be met:

1) **The time of day must fall within either of the 2 set time periods as set by you.**

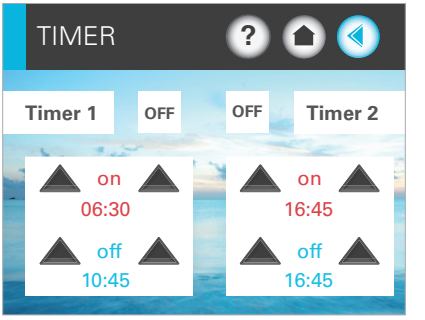
2) **The temperature in the control room must be higher than the HT Temperature setting.**

Two timers allow morning and evening operations but there are no restrictions of the timer band width or even overlap.

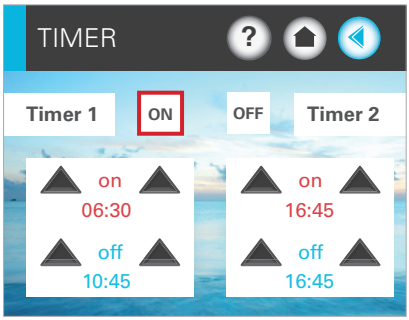
To enable the Timer heat transfer mode press the Timer tab:



The TIMER page is displayed showing Timer 1 and Timer 2 on/off times:



To set the Timer(s)
To turn Timer 1 ON, press the button adjacent to the Timer 1 tab labelled 'OFF'. This will change to an ON button with a red border:



Use the UP arrows to adjust the time in hours and minutes that the heat transfer will turn on, provided the room is higher than HT Temperature setting. The arrows on the left hand side of the Timer 1 'clock box' adjust the Hour, and the ones of the right hand side adjust the Minutes.

If two timer periods are required, repeat the procedure for Timer 2. Both or either timers can be on or off.

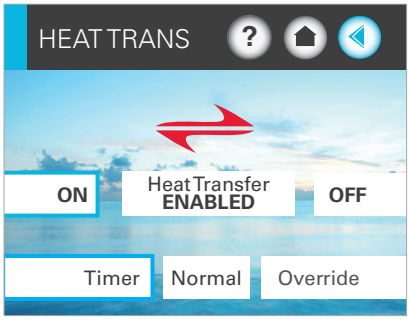
As an example the heat transfer could be set to come on between 6am and 8am in the morning and between 5pm and 8pm at night, all provided the room temperature is higher than HT Temperature.

Note:

1. *If your room temperature is below your HT Temperature setting during your timer periods, then the heat transfer will not turn ON.*
2. *If your room temperature rises above your HT Temperature outside of your chosen time periods, then the Heat Transfer will NOT turn ON.*

Return to the HEAT TRANSFER page by pressing the Back button

The Timer tab border is now highlighted blue indicating this mode is operative:



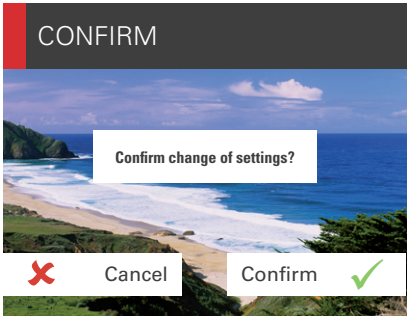
To deactivate Timer heat transfer mode either turn the heat transfer OFF on the HEAT TRANSFER page or change to another heat transfer mode.

Press the help page icon at any stage to provide information on these Heat Transfer modes.

Press the Home button to return to the Home Page at any time.

Press the Back button to step back to the SETTINGS Menu.

If any changes have been made to the settings in this section, SmartVent will prompt you to confirm your decision:

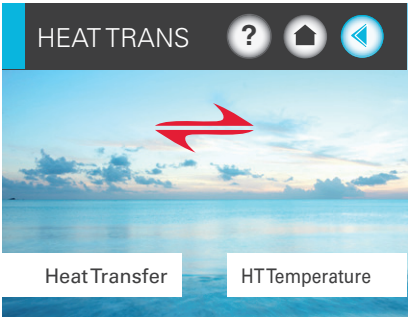


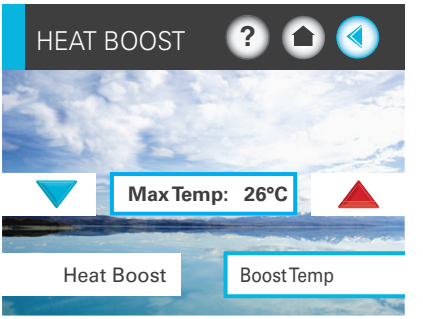
HEAT TRANSFER TEMPERATURE

When the Heat Transfer Mode has been 'enabled', the controller uses the temperature sensed (the HT Temperature) at the wall panel controller to control the transfer of air from this heated room.

When the temperature in the controller room reaches the pre-set HT Temperature settings the system will automatically start functioning in the Heat Transfer Mode. When the temperature in the controller room drops 1˚C below the HT Temperature settings, the system reverts back to a standard SmartVent™ configuration.

Note: The default setting and reset setting for the HT Temperature settings is 25˚C. This temperature is independent of the system's maximum and minimum temperatures. The HT Temperature is adjustable up to 35˚C maximum.





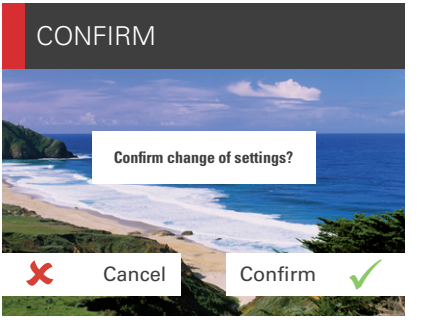
The HT Temperature setting is highlighted to indicate that this is the active setting. Use the DOWN arrow to decrease and the UP arrow to increase the temperature to your desired level.

Press the help page icon at any stage to provide information on Heat Transfer.

Press the Home button to return to the Home Page at any time.

Press the Back button to step back to the SETTINGS Menu.

If any changes have been made to the settings in this section, SmartVent will prompt you to confirm your decision:



Press the 'Confirm' button to accept the changes and exit this section.

MY SETTINGS - CLOCK

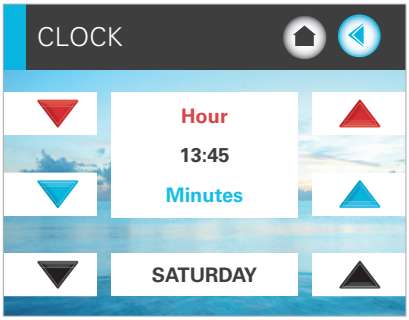
The SmartVent controller has a real time clock, to display the time and to allow the householder to set the times that the heater or heat transfer features are active.

When the SmartVent is first installed please check the correct time and day is set.

Note:
The current day and time will be displayed in the top right hand corner of the HOME PAGE.

To change the Clock, press SETTINGS on the Home page then press Clock:

The CLOCK page will display showing the current hour, minute and day settings.



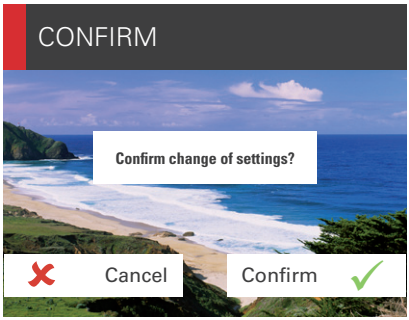
- Use the red arrows to adjust the Hour
- Use the blue arrows to adjust the Minutes
- Use the black arrows to adjust the Day

Once the clock has been set correctly,

Press the Home button to return to the Home Page or

Press the Back button to step back to the MY SETTINGS Menu

If any changes have been made to the settings in this section, SmartVent will prompt you to confirm your decision:



Push the confirm button and the display will return to the SETTINGS Home page.

Note:
In the event of a power cut, an internal battery will maintain the proper CLOCK operation.

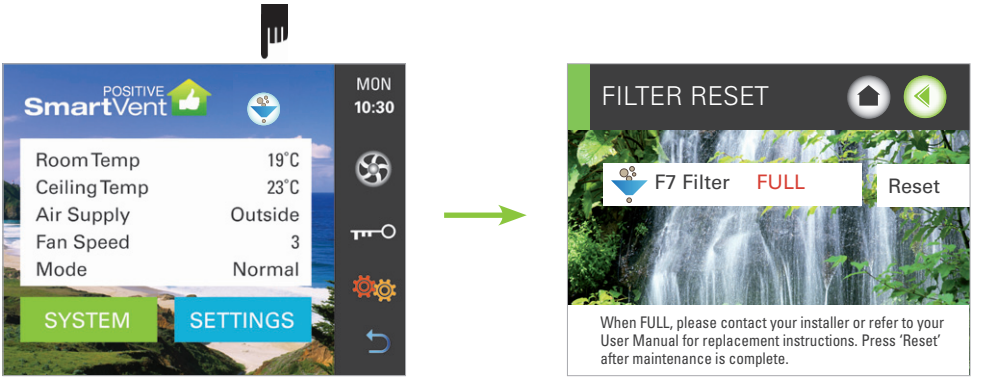
6. Maintenance

This section covers the following maintenance information:

Filter Maintenance	32
Cleaning the Controller	33

FILTER MAINTENANCE

This Filter Replacement icon will show on the HOME PAGE when the filter requires replacing. Press the icon to take you directly to the FILTER RESET page



Note: DO NOT reset the filter until you have completed the maintenance.

F7 FILTER REPLACEMENT

The F7 filter's life span for SmartVent is 1 year (52 weeks) before reaching 100% filter usage/ FULL.

Once the F7 filter is FULL you will need to replace the filter media. You can purchase and change this filter yourself as it is just a matter of undoing clips on the in-line filter (as pictured below) in your roof space and replacing it with the new Filter Media Box. Alternatively you can contact your installer to purchase and replace it for you.

You can purchase your replacement filter from any Electrical Wholesaler by simply quoting the SmartVent order code DCT2093.

In-Line F7 Filter

Replacement F7 Filter Media Box

Once replaced, press the Reset tab next to the F7 filter as shown on the above.

CLEANING THE CONTROLLER

1) Turn your SmartVent system OFF (refer to page 8 for instructions on turning your system OFF).

2) Clean the control screen by gently wiping the surface with a slightly dampened tissue moistened with water only, cleaning solution is not recommended. DO NOT spray cleaning solutions or water onto the controller as it is **NOT WATERPROOF.**

3) Turn your SmartVent system back ON (refer to page 9 for instructions on turning your system ON)

7. Frequently Asked Questions

- **What does this symbol mean on my Home page?**

This Filter Replacement icon will show on the HOME PAGE when the filter requires cleaning or replacing. Refer to page 32 for more information.

When speaker volume is OFF, this 'mute' icon will appear on the Home page. To adjust/increase the volume, refer to page 6.

- **Why is the Fan Icon on my Home page flashing?**

This indicates that the fan is on 'Boost' - Maximum Fan Speed (speed 3) as a result of manual override.

- **My Home page is showing an Error message - what do I do?**

In the event of a system error, SmartVent will display this page. Refer to page 36 for more information.

- **What is the difference between 'ON' and 'ENABLED', and 'OFF' and 'DISABLED', regarding the Heat Transfer mode and Heater modes (if installed)?**

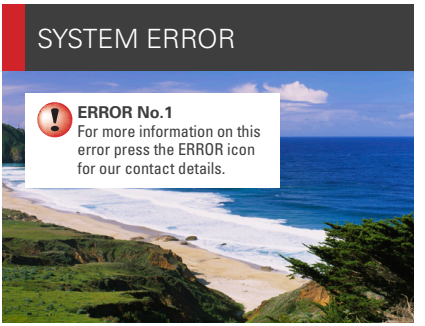
The Heat Transfer and Heater modes (discounting Override mode) are conditional on the room temperature above or below a set value: therefore the mode can be 'Enabled' but physically inactive or 'OFF' if the room/ceiling temperature are not within the temperature range required to operate.

8. Glossary of Terms

Air Source	The source of inlet air: either the ceiling cavity or outside.
Comfort Range/Zone	The range of temperatures found most comfortable to live in which, once programmed into the Controller, SmartVent will try and work within the temperature range you have set in the 'Climate Settings'.
Heat Transfer Mode	The Heat Transfer feature is perfect for when your heat source creates too much heat for one room. When enabled, SmartVent will extract warm air from your heated room (where your controller is placed), and distributes it throughout the home. SmartVent will not return this air back into the heated room.
Roof Cavity	The roof space where your SmartVent system is installed. Provides a source of heated supply air.
Tempering Heater	An in-line 1kW duct heater used to raise the temperature of the inlet air and helps reduce condensation.
HT Temperature	The target maximum temperature for the control room above which Heat Transfer, in Normal or Timer Mode will start operating to transfer the excess heat into the rest of your home.

9. Error Messages

In the event of a system error, SmartVent will display this page.



There are 6 different Error Numbers that can be displayed.

- **Error No.1** Real time clock error.
- **Error No.2** Real time clock error.
- **Error No.3** System Controller internal communication error.
- **Error No.4** System Controller internal communication error
- **Error No.5** Communication error between Ceiling Control Unit & Touch Screen Controller.
- **Error No.6** User variables memory error.

Note:
Error No. 7 indicates an unspecified error.

In all cases, please contact SmartVent on **09 259 1662** to speak to an advisor and quote the Error Number displayed on your Controller so that they can direct you accordingly.

The Home page will not be displayed again until the error has been dealt with.

10. Warranty & Serial Numbers

5 YEAR WARRANTY

SmartVent warrants to the purchaser that this product is free from defects in the material and workmanship for a period of five years from the date of the original retail purchase. This warranty is only valid if proof of purchase in the form of a bill of sale, invoice or purchase receipt is presented at the time of request of service and if the attached warranty card is completed and returned to SmartVent.

The customer shall ensure that the goods are fit and suitable for the purpose for which they are required and the company is under no liability if they are not.

The Warranty is in addition to all other conditions, warranties, guarantees, rights and remedies which may be applied by relevant legislation in New Zealand.

This warranty will not be applicable if the product has not been operated and maintained in accordance with the manufacturer's instructions and recommendations contained in the operating & installation instructions provided with the product, or if the product has been used in a manner other than for which it was originally designed, or if the damage, malfunction or failure has resulted from incorrect voltages, alterations, accident, misuse, neglect, abuse, faulty or improper installation or main supply problems.

We recommend that you keep all the original packaging as it provides the best protection should you have to store or transport this unit in the future.

Our Goods come with guarantees that cannot be excluded under the Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the Goods repaired or replaced if the Goods fail to be of acceptable quality and the failure does not amount to a major failure.

Filter Replacement is not included in this warranty.

SERIAL NUMBERS

Please ensure that the Serial Numbers for the following SmartVent parts are noted below for future reference. Your installer can fill these in for you.

Serial Number of:	Ceiling Control Unit	**CC** _____
	Touch Panel Controller	**TP** _____

INSTALLER DETAILS

Installer's Name: _____

Company: _____

Contact Phone Number: _____

11. Notes

11. Notes

11. Notes

Distributed by Simx Limited
Customer Support p: (09) 259 1662 | f: (09) 259 1661
e: enquiry@smartvent.co.nz | w: www.smartvent.co.nz

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